

Lendl Ah-Fook **CS** Mining PO Box 608 Milford, UT 84251 1/001/0067

RECEIVED

JUL 20 2016

DIV. OF OIL, GAS & MINING

RE: ITDF

Dear Lendl Ah-Fook:

Lab Set ID: 1606554

3440 South 700 West Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 6/24/2016 for the analyses presented in the following report.

Phone: (801) 263-8686 Toll Free: (888) 263-8686 American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

Fax: (801) 263-8687

All analyses were performed in accordance to the NELAP protocols unless noted

e-mail: awal@awal-labs.com

otherwise. Accreditation scope documents are available upon request. If you have any

questions or concerns regarding this report please feel free to call.

web: www.awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha **OA** Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Digitally signed by Kyle F. Gross Date: 2016.07.11 06:39:11 -06'00'

Approved by:

Laboratory Director or designee



INORGANIC ANALYTICAL REPORT

Contact: Lendl Ah-Fook

Client:

CS Mining

Project:

ITDF

Lab Sample ID:

1606554-001 Client Sample ID: ITDF

Collection Date:

6/24/2016 1216h

Received Date:

6/24/2016 1701h

Analytical Results

TOTAL METALS

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|-----------|--|--|---|---|---|--|---|
| Antimony | mg/L | 6/27/2016 1226h | 6/30/2016 1519h | SW6020A | 0.0100 | 0.0411 | |
| Arsenic | mg/L | 6/27/2016 1226h | 6/30/2016 1519h | SW6020A | 0.0100 | 5.34 | |
| Barium | mg/L | 6/27/2016 1226h | 6/28/2016 1428h | SW6020A | 0.00200 | 0.0858 | |
| Beryllium | mg/L | 6/27/2016 1226h | 7/1/2016 1622h | SW6020A | 0.0500 | < 0.0500 | * |
| Cadmium | mg/L | 6/27/2016 1226h | 6/30/2016 1519h | SW6020A | 0.00250 | 0.404 | |
| Calcium | mg/L | 6/27/2016 1226h | 6/28/2016 800h | SW6010C | 100 | 540 | |
| Chromium | mg/L | 6/27/2016 1226h | 6/28/2016 1428h | SW6020A | 0.00200 | 0.664 | |
| Copper | mg/L | 6/27/2016 1226h | 6/30/2016 1423h | SW6020A | 1.00 | (337) | |
| Lead | mg/L | 6/27/2016 1226h | 6/28/2016 1428h | SW6020A | 0.00200 | 0.691 | |
| Magnesium | mg/L | 6/27/2016 1226h | 6/28/2016 800h | SW6010C | 100 | 1,850 | |
| Mercury | mg/L | 7/5/2016 1409h | 7/6/2016 851h | SW7470A | 0.000150 | < 0.000150 | |
| Potassium | mg/L | 6/27/2016 1226h | 6/28/2016 820h | SW6010C | 10.0 | 66.3 | |
| Selenium | mg/L | 6/27/2016 1226h | 6/30/2016 1519h | SW6020A | 0.0100 | 0.0236 | |
| Silver | mg/L | 6/27/2016 1226h | 6/30/2016 1519h | SW6020A | 0.0100 | < 0.0100 | * |
| Sodium | mg/L | 6/27/2016 1226h | 6/28/2016 820h | SW6010C | 10.0 | 272 | |
| Thallium | mg/L | 6/27/2016 1226h | 6/28/2016 1428h | SW6020A | 0.00200 | 0.00845 | |
| Zinc | mg/L | 6/27/2016 1226h | 6/30/2016 1423h | SW6020A | 2.50 | 37.9 | |
| | Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Copper Lead Magnesium Mercury Potassium Selenium Silver Sodium Thallium | Antimony mg/L Arsenic mg/L Barium mg/L Beryllium mg/L Cadmium mg/L Calcium mg/L Chromium mg/L Copper mg/L Lead mg/L Magnesium mg/L Mercury mg/L Potassium mg/L Selenium mg/L Silver mg/L Sodium mg/L Thallium mg/L | Compound Units Prepared Antimony mg/L 6/27/2016 1226h Arsenic mg/L 6/27/2016 1226h Barium mg/L 6/27/2016 1226h Beryllium mg/L 6/27/2016 1226h Cadmium mg/L 6/27/2016 1226h Calcium mg/L 6/27/2016 1226h Chromium mg/L 6/27/2016 1226h Copper mg/L 6/27/2016 1226h Lead mg/L 6/27/2016 1226h Magnesium mg/L 6/27/2016 1226h Mercury mg/L 6/27/2016 1226h Selenium mg/L 6/27/2016 1226h Selenium mg/L 6/27/2016 1226h Sodium mg/L 6/27/2016 1226h Thallium mg/L 6/27/2016 1226h | Compound Units Prepared Analyzed Antimony mg/L 6/27/2016 1226h 6/30/2016 1519h Arsenic mg/L 6/27/2016 1226h 6/30/2016 1519h Barium mg/L 6/27/2016 1226h 6/28/2016 1428h Beryllium mg/L 6/27/2016 1226h 6/28/2016 1428h Cadmium mg/L 6/27/2016 1226h 6/30/2016 1519h Calcium mg/L 6/27/2016 1226h 6/30/2016 800h Chromium mg/L 6/27/2016 1226h 6/28/2016 800h Copper mg/L 6/27/2016 1226h 6/30/2016 1428h Magnesium mg/L 6/27/2016 1226h 6/28/2016 800h Mercury mg/L 6/27/2016 1226h 6/28/2016 800h Mercury mg/L 6/27/2016 1226h 6/28/2016 820h Selenium mg/L 6/27/2016 1226h 6/30/2016 1519h Silver mg/L 6/27/2016 1226h 6/30/2016 1519h Sodium mg/L 6/27/2016 1226h 6/28/2016 820h Thallium mg/L 6/27/2016 | Compound Units Prepared Analyzed Used Antimony mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A Arsenic mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A Barium mg/L 6/27/2016 1226h 6/28/2016 1428h SW6020A Beryllium mg/L 6/27/2016 1226h 6/30/2016 1622h SW6020A Cadmium mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A Calcium mg/L 6/27/2016 1226h 6/28/2016 800h SW6010C Chromium mg/L 6/27/2016 1226h 6/28/2016 1428h SW6020A Copper mg/L 6/27/2016 1226h 6/30/2016 1423h SW6020A Lead mg/L 6/27/2016 1226h 6/28/2016 800h SW6020A Magnesium mg/L 6/27/2016 1226h 6/28/2016 800h SW6010C Mercury mg/L 6/27/2016 1226h 6/28/2016 851h SW7470A Potassium mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A <t< td=""><td>Compound Units Prepared Analyzed Used Limit Antimony mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.0100 Arsenic mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.0100 Barium mg/L 6/27/2016 1226h 6/28/2016 1428h SW6020A 0.00200 Beryllium mg/L 6/27/2016 1226h 6/28/2016 1519h SW6020A 0.0500 Cadmium mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.00250 Calcium mg/L 6/27/2016 1226h 6/28/2016 800h SW6010C 100 Chromium mg/L 6/27/2016 1226h 6/28/2016 1428h SW6020A 0.00200 Copper mg/L 6/27/2016 1226h 6/28/2016 1428h SW6020A 0.00200 Magnesium mg/L 6/27/2016 1226h 6/28/2016 800h SW6010C 100 Mercury mg/L 6/27/2016 1226h 6/28/2016 820h SW6010C 10.0 Selenium mg/L 6/2</td><td>Compound Units Prepared Analyzed Used Limit Result Antimony mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.0100 0.0411 Arsenic mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.0100 5.34 Barium mg/L 6/27/2016 1226h 6/28/2016 1428h SW6020A 0.00200 0.0858 Beryllium mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.0500 < 0.0500</td> Cadmium mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.00250 0.404 Calcium mg/L 6/27/2016 1226h 6/28/2016 800h SW6010C 100 540 Chromium mg/L 6/27/2016 1226h 6/28/2016 1428h SW6020A 0.00200 0.664 Copper mg/L 6/27/2016 1226h 6/30/2016 1428h SW6020A 0.00200 0.691 Magnesium mg/L 6/27/2016 1226h 6/28/2016 800h SW6010C 100 1,850</t<> | Compound Units Prepared Analyzed Used Limit Antimony mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.0100 Arsenic mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.0100 Barium mg/L 6/27/2016 1226h 6/28/2016 1428h SW6020A 0.00200 Beryllium mg/L 6/27/2016 1226h 6/28/2016 1519h SW6020A 0.0500 Cadmium mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.00250 Calcium mg/L 6/27/2016 1226h 6/28/2016 800h SW6010C 100 Chromium mg/L 6/27/2016 1226h 6/28/2016 1428h SW6020A 0.00200 Copper mg/L 6/27/2016 1226h 6/28/2016 1428h SW6020A 0.00200 Magnesium mg/L 6/27/2016 1226h 6/28/2016 800h SW6010C 100 Mercury mg/L 6/27/2016 1226h 6/28/2016 820h SW6010C 10.0 Selenium mg/L 6/2 | Compound Units Prepared Analyzed Used Limit Result Antimony mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.0100 0.0411 Arsenic mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.0100 5.34 Barium mg/L 6/27/2016 1226h 6/28/2016 1428h SW6020A 0.00200 0.0858 Beryllium mg/L 6/27/2016 1226h 6/30/2016 1519h SW6020A 0.0500 < 0.0500 |

^{* -} The reporting limits were raised due to sample matrix interferences.



INORGANIC ANALYTICAL REPORT

Contact: Lendl Ah-Fook

Client:

CS Mining

Project:

ITDF

Lab Sample ID:

1606554-001

Client Sample ID: ITDF

6/24/2016 1216h

Collection Date: Received Date:

6/24/2016 1701h

Analytical Results

| 3440 South 700 West | Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|----------------------------|------------------------|----------|------------------|------------------|----------------|--------------------|----------------------|------|
| Salt Lake City, UT 84119 | Alkalinity (as CaCO3) | mg/L | | 6/27/2016 530h | SM2320B | 10.0 | < 10.0 | ^ |
| | Bicarbonate (as CaCO3) | mg/L | | 6/27/2016 530h | SM2320B | 10.0 | < 10.0 | |
| | Carbon Dioxide | mg/L | | 6/27/2016 1603h | SM4500-CO2-D | 5.00 | < 5.00 | |
| Phone: (801) 263-8686 | Carbonate (as CaCO3) | mg/L | | 6/27/2016 530h | SM2320B | 10.0 | < 10.0 | |
| Toll Free: (888) 263-8686 | Chloride | mg/L | | 7/6/2016 1313h | E300.0 | 10.0 | 331 | |
| Fax: (801) 263-8687 | Hydroxide (as CaCO3) | mg/L | | 6/27/2016 530h | SM2320B | 10.0 | < 10.0 | |
| e-mail: awal@awal-labs.com | Nitrate (as N) | mg/L | | 6/24/2016 1839h | E353.2 | 0.100 | 2.88 | |
| | Nitrite (as N) | mg/L | | 6/24/2016 1839h | E353.2 | 0.100 | 0.140 | |
| web: www.awal-labs.com | pH @ 25° C | pH Units | | 6/24/2016 1732h | SM4500-H+B | 1.00 | 1.65 | |
| | Sulfate | mg/L | | 7/6/2016 1330h | E300.0 | 750 | 14,600 |) |
| | Total Dissolved Solids | mg/L | | 6/27/2016 1300h | SM2540C | 100 | 21,300 | > |

Kyle F. Gross Laboratory Director $\verb|^-Insufficient sample volume| to perform MS/MSD analysis. An LCSD was added to provide precision data.$

Jose Rocha QA Officer



ITDF

Project:

3440 South 700 West Salt Lake City, UT 84119

Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687

e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Contact: Lendl Ah-Fook

Dept: ME QC Type: LCS

| Analyte | | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|----------------|------------|----------------|-----------|----------|------------|--------------------|------------------|----------------------|------|----------|-----------------|-------|--------------|------|
| Lab Sample ID: | | Date Analyzed: | 06/28/20 | 16 758h | | | | | | | | | | |
| Test Code: | 6010C-W | Date Prepared: | 06/27/20 | 16 1226h | | | | | | | | | | |
| Calcium | | 9.82 | mg/L | SW6010C | 0.00643 | 1.00 | 10.00 | 0 | 98.2 | 80 - 120 | | | | |
| Magnesium | | 10.2 | mg/L | SW6010C | 0.0457 | 1.00 | 10.00 | 0 | 102 | 80 - 120 | | | | |
| Potassium | | 9.50 | mg/L | SW6010C | 0.106 | 1.00 | 10.00 | 0 | 95.0 | 80 - 120 | | | | |
| Sodium | 10 mm | 9.82 | mg/L | SW6010C | 0.0142 | 1.00 | 10.00 | 0 | 98.2 | 80 - 120 | | | | |
| Lab Sample ID: | LCS-43726 | Date Analyzed: | 06/28/20 | 16 1304h | | | | | | | | | | |
| Test Code: | 6020-W | Date Prepared: | 06/27/201 | 16 1226h | | | | | | | | | | |
| Antimony | | 0.197 | mg/L | SW6020A | 0.000854 | 0.00200 | 0.2000 | 0 | 98.5 | 85 - 115 | | | | |
| Arsenic | | 0.191 | mg/L | SW6020A | 0.000706 | 0.00200 | 0.2000 | 0 | 95.6 | 85 - 115 | | | | |
| Barium | | 0.193 | mg/L | SW6020A | 0.000788 | 0.00200 | 0.2000 | 0 | 96.4 | 85 - 115 | | | | |
| Beryllium | | 0.203 | mg/L | SW6020A | 0.000960 | 0.00200 | 0.2000 | 0 | 102 | 85 - 115 | | | | |
| Cadmium | | 0.194 | mg/L | SW6020A | 0.0000364 | 0.000500 | 0.2000 | 0 | 96.9 | 85 - 115 | | | | |
| Chromium | | 0.204 | mg/L | SW6020A | 0.000650 | 0.00200 | 0.2000 | 0 | 102 | 85 - 115 | | | | |
| Copper | | 0.199 | mg/L | SW6020A | 0.000386 | 0.00200 | 0.2000 | 0 | 99.3 | 85 - 115 | | | | |
| Lead | | 0.198 | mg/L | SW6020A | 0.000818 | 0.00200 | 0.2000 | 0 | 98.8 | 85 - 115 | | | | |
| Selenium | | 0.194 | mg/L | SW6020A | 0.000612 | 0.00200 | 0.2000 | 0 | 96.9 | 85 - 115 | | | | |
| Silver | | 0.192 | mg/L | SW6020A | 0.0000738 | 0.00200 | 0.2000 | 0 | 96.0 | 85 - 115 | | | | |
| Thallium | | 0.197 | mg/L | SW6020A | 0.00110 | 0.00200 | 0.2000 | 0 | 98.3 | 85 - 115 | | | | |
| Lab Sample ID: | LCS-43726 | Date Analyzed: | 06/29/201 | l6 1028h | | | | | | | | | | |
| Test Code: | 6020-W | Date Prepared: | 06/27/201 | 6 1226h | | | | | | | | | | |
| Zinc | | 0.968 | mg/L | SW6020A | 0.00424 | 0.00500 | 1.000 | 0 | 96.8 | 85 - 115 | | | | |
| Lab Sample ID: | LCS-43834 | Date Analyzed: | 07/06/201 | l 6 824h | | | | | | | | | | |
| Test Code: | HG-W-7470A | Date Prepared: | 07/05/201 | 6 1409h | | | | | | | | | | |
| Mercury | | 0.00358 | mg/L | SW7470A | 0.00000559 | 0.000150 | 0.003330 | 0 | 107 | 80 - 120 | | | | |
| | | | | | | | | | | | | | | |



ITDF

Project:

3440 South 700 West Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Contact: Lendl Ah-Fook

Dept: ME **QC Type:** MBLK

| Analyte | | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|----------------|------------|----------------|-----------|----------|------------|--------------------|------------------|----------------------|------|--------|-----------------|-------|--------------|------|
| Lab Sample ID: | MB-43726 | Date Analyzed: | 06/28/20 | 16 756h | | | | | | | | | | |
| Test Code: | 6010C-W | Date Prepared: | 06/27/20 | 16 1226h | | | | | | | | | | |
| Calcium | | < 1.00 | mg/L | SW6010C | 0.00643 | 1.00 | | | | | | | | |
| Magnesium | | < 1.00 | mg/L | SW6010C | 0.0457 | 1.00 | | | | | | | | |
| Potassium | | < 1.00 | mg/L | SW6010C | 0.106 | 1.00 | | | | | | | | |
| Sodium | | < 1.00 | mg/L | SW6010C | 0.0142 | 1.00 | | | | | | | | |
| Lab Sample ID: | MB-43726 | Date Analyzed: | 06/28/20 | 16 1300h | | | | 1480 | | | | | | |
| Test Code: | 6020-W | Date Prepared: | 06/27/20 | l6 1226h | | | | | | | | | | |
| Antimony | | < 0.00200 | mg/L | SW6020A | 0.000854 | 0.00200 | | | | | | | | |
| Arsenic | | < 0.00200 | mg/L | SW6020A | 0.000706 | 0.00200 | | | | | | | | |
| Barium | | < 0.00200 | mg/L | SW6020A | 0.000788 | 0.00200 | | | | | | | | |
| Beryllium | | < 0.00200 | mg/L | SW6020A | 0.000960 | 0.00200 | | | | | | | | |
| Cadmium | | < 0.000500 | mg/L | SW6020A | 0.0000364 | 0.000500 | | | | | | | | |
| Chromium | | < 0.00200 | mg/L | SW6020A | 0.000650 | 0.00200 | | | | | | | | |
| Copper | | < 0.00200 | mg/L | SW6020A | 0.000386 | 0.00200 | | | | | | | | |
| Lead | | < 0.00200 | mg/L | SW6020A | 0.000818 | 0.00200 | | | | | | | | |
| Selenium | | < 0.00200 | mg/L | SW6020A | 0.000612 | 0.00200 | | | | | | | | |
| Silver | | < 0.00200 | mg/L | SW6020A | 0.0000738 | 0.00200 | | | | | | | | |
| Thallium | | < 0.00200 | mg/L | SW6020A | 0.00110 | 0.00200 | | | | | | | | |
| Lab Sample ID: | MB-43726 | Date Analyzed: | 06/29/20 | 6 1024h | | | | | | | | | | |
| Test Code: | 6020-W | Date Prepared: | 06/27/201 | 6 1226h | | | | | | | | | | |
| Zinc | | < 0.00500 | mg/L | SW6020A | 0.00424 | 0.00500 | | | | | | | | |
| Lab Sample ID: | MB-43834 | Date Analyzed: | 07/06/20 | 6 822h | | | | | | | | | | |
| Test Code: | HG-W-7470A | Date Prepared: | 07/05/201 | 6 1409h | | | | | | | | | | |
| Mercury | | < 0.000150 | mg/L | SW7470A | 0.00000559 | 0.000150 | | | | | | | | |
| | | | | | | | | | | | | | | |



Project:

ITDF

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Contact: Lendl Ah-Fook

Dept: ME **QC Type:** MS

| Analyte | | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|----------------|----------------|----------------|----------|----------|-----------|--------------------|------------------|----------------------|------|----------|-----------------|-------|--------------|------|
| Lab Sample ID: | 1606557-001AMS | Date Analyzed: | 06/28/20 | 16 808h | | | | | | | | | | |
| Test Code: | 6010C-W | Date Prepared: | 06/27/20 | 16 1226h | | | | | | | | | | |
| Calcium | | 96.1 | mg/L | SW6010C | 0.0643 | 10.0 | 100.0 | 0.0715 | 96.0 | 75 - 125 | | | | |
| Magnesium | | 100 | mg/L | SW6010C | 0.457 | 10.0 | 100.0 | 0 | 100 | 75 - 125 | | | | |
| Potassium | | 94.9 | mg/L | SW6010C | 1.06 | 10.0 | 100.0 | 0.31 | 94.6 | 75 - 125 | | | | |
| Sodium | | 102 | mg/L | SW6010C | 0.142 | 10.0 | 100.0 | 3.44 | 98.4 | 75 - 125 | | | | |
| Lab Sample ID: | 1606365-001AMS | Date Analyzed: | 06/28/20 | 16 1316h | | | 16 | | | | | | | |
| Test Code: | 6020-W | Date Prepared: | 06/27/20 | 16 1226h | | | | | | | | | | |
| Antimony | | 0.202 | mg/L | SW6020A | 0.000854 | 0.00200 | 0.2000 | 0.00396 | 99.0 | 75 - 125 | | | | |
| Arsenic | | 0.205 | mg/L | SW6020A | 0.000706 | 0.00200 | 0.2000 | 0.00375 | 100 | 75 - 125 | | | | |
| Barium | | 0.394 | mg/L | SW6020A | 0.000788 | 0.00200 | 0.2000 | 0.204 | 95.1 | 75 - 125 | | | | |
| Beryllium | | 0.197 | mg/L | SW6020A | 0.000960 | 0.00200 | 0.2000 | 0 | 98.6 | 75 - 125 | | | | |
| Cadmium | | 0.193 | mg/L | SW6020A | 0.0000364 | 0.000500 | 0.2000 | 0.000692 | 96.4 | 75 - 125 | | | | |
| Chromium | | 0.370 | mg/L | SW6020A | 0.000650 | 0.00200 | 0.2000 | 0.176 | 97.0 | 75 - 125 | | | | |
| Lead | | 0.211 | mg/L | SW6020A | 0.000818 | 0.00200 | 0.2000 | 0.0227 | 94.1 | 75 - 125 | | | | |
| Selenium | | 0.198 | mg/L | SW6020A | 0.000612 | 0.00200 | 0.2000 | 0.00376 | 96.9 | 75 - 125 | | | | |
| Silver | | 0.187 | mg/L | SW6020A | 0.0000738 | 0.00200 | 0.2000 | 0.000229 | 93.5 | 75 - 125 | | | | |
| Thallium | | 0.180 | mg/L | SW6020A | 0.00110 | 0.00200 | 0.2000 | 0 | 89.9 | 75 - 125 | | | | |
| Lab Sample ID: | 1606545-002DMS | Date Analyzed: | 06/28/20 | 16 1326h | | | | | | | | | | |
| Test Code: | 6020-W | Date Prepared: | 06/27/20 | 16 1226h | | | | | | | | | | |
| Antimony | | 0.198 | mg/L | SW6020A | 0.000854 | 0.00200 | 0.2000 | 0.00293 | 97.6 | 75 - 125 | | | | |
| Arsenic | | 0.207 | mg/L | SW6020A | 0.000706 | 0.00200 | 0.2000 | 0.00357 | 102 | 75 - 125 | | | | |
| Barium | | 0.345 | mg/L | SW6020A | 0.000788 | 0.00200 | 0.2000 | 0.158 | 93.4 | 75 - 125 | | | | |
| Beryllium | | 0.194 | mg/L | SW6020A | 0.000960 | 0.00200 | 0.2000 | 0 | 96.9 | 75 - 125 | | | | |
| Cadmium | | 0.191 | mg/L | SW6020A | 0.0000364 | 0.000500 | 0.2000 | 0.000516 | 95.2 | 75 - 125 | | | | |
| Chromium | | 0.335 | mg/L | SW6020A | 0.000650 | 0.00200 | 0.2000 | 0.139 | 98.0 | 75 - 125 | | | | |
| Lead | | 0.197 | mg/L | SW6020A | 0.000818 | 0.00200 | 0.2000 | 0.0124 | 92.2 | 75 - 125 | | | | |
| Selenium | | 0.190 | mg/L | SW6020A | 0.000612 | 0.00200 | 0.2000 | 0.00309 | 93.6 | 75 - 125 | | | | |
| | | | | | | | | | | | | | | |

Report Date: 7/9/2016 Page 6 of 17



ITDF

Project:

3440 South 700 West Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross

Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Contact: Lendl Ah-Fook

Dept: ME QC Type: MS

| Analyte | | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|------------------------------|-------------------------------------|----------------------------------|------------------------|--------------------|----------------------|--------------------|------------------|----------------------|--------------|----------------------|-----------------|-------|--------------|------|
| Lab Sample ID: Test Code: | 1606545-002DMS 6020-W | Date Analyzed: Date Prepared: | 06/28/201 06/27/201 | | | | | | | | | | | |
| Silver Thallium | | 0.183 0.171 | mg/L mg/L | SW6020A SW6020A | 0.0000738 0.00110 | 0.00200 0.00200 | 0.2000 0.2000 | 0.000222 0 | 91.2 85.4 | 75 - 125 75 - 125 | | | | |
| Lab Sample ID: Test Code: | 1606365-001AMS 6020-W | Date Analyzed: Date Prepared: | 06/29/201 06/27/201 | | | | | | | | | | | |
| Zinc | | 54.9 | mg/L | SW6020A | 0.212 | 0.250 | 1.000 | 56.3 | -148 | 75 - 125 | | | | 2 |
| Lab Sample ID: Test Code: | 1606545-002DMS 6020-W | Date Analyzed: Date Prepared: | 06/29/201 06/27/201 | | | | | | | | | | | |
| Zinc | | 64.4 | mg/L | SW6020A | 0.212 | 0.250 | 1.000 | 68.7 | -425 | 75 - 125 | | | | 2 |
| Lab Sample ID: Test Code: | 1606545-002DMS 6020-W | Date Analyzed: Date Prepared: | 06/29/201 06/27/201 | | | | | | | | | | | |
| Copper | | 10.4 | mg/L | SW6020A | 0.00386 | 0.0200 | 0.2000 | 9.58 | 394 | 75 - 125 | | | | 2 |
| Lab Sample ID: Test Code: | 1606365-001AMS 6020-W | Date Analyzed: Date Prepared: | 06/29/201 06/27/201 | | | | | | | | | | | |
| Copper | | 5.28 | mg/L | SW6020A | 0.00193 | 0.0100 | 0.2000 | 5.03 | 122 | 75 - 125 | | | | |
| Lab Sample ID: Test Code: | 1606365-001AMS HG-W-7470A | Date Analyzed: Date Prepared: | 07/06/201 07/05/201 | | | | | | | | | | | |
| Mercury | | 0.00616 | mg/L | SW7470A | 0.00000559 | 0.000150 | 0.003330 | 0.00266 | 105 | 80 - 120 | | | | |
| Lab Sample ID: Test Code: | 1606527-001FMS HG-W-7470A | Date Analyzed: Date Prepared: | 07/06/201 07/05/201 | | | | | | | | | | | |
| Mercury | | 0.00341 | mg/L | SW7470A | 0.00000559 | 0.000150 | 0.003330 | 0 | 102 | 80 - 120 | | | | |



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Kyle F. Gross
Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Contact: Lendl Ah-Fook

Dept: ME

QC Type: MS

| Analyte | | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|------------------------------|-------------------------------------|----------------------------------|--------------------------|---------|------------|--------------------|------------------|----------------------|------|----------|-----------------|-------|--------------|------|
| Lab Sample ID: Test Code: | 1606566-001JMS HG-W-7470A | Date Analyzed: Date Prepared: | 07/06/2010 07/05/2010 | | | | | | | | | | | |
| Mercury | | 0.00342 | mg/L | SW7470A | 0.00000559 | 0.000150 | 0.003330 | 0 | 103 | 80 - 120 | | | | |
| Lab Sample ID: Test Code: | 1606620-001DMS HG-W-7470A | Date Analyzed: Date Prepared: | 07/06/2010 07/05/2010 | | | | | | | | | | | |
| Mercury | | 0.00359 | mg/L | SW7470A | 0.00000559 | 0.000150 | 0.003330 | 0 | 108 | 80 - 120 | | | | |
| Lab Sample ID: Test Code: | 1606645-001FMS HG-W-7470A | Date Analyzed: Date Prepared: | 07/06/2010 07/05/2010 | | | | | | | | | | | |
| Mercury | | 0.00348 | mg/L | SW7470A | 0.00000559 | 0.000150 | 0.003330 | 0 | 104 | 80 - 120 | | | | |

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

Insufficient sample volume/mass was provided to allow for a full volume/mass analysis of the MS/MSD. Reduced sample volume for the MS/MSD was used as a result.

Report Date: 7/9/2016 Page 8 of 17



ITDF

Client:

Project:

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Kyle F. Gross **Laboratory Director**

Jose Rocha OA Officer

QC SUMMARY REPORT

Contact:

Lendl Ah-Fook

Dept: ME

QC Type: MSD

| Analyte | Majoria Par | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|------------------------------|----------------------------------|----------------------------------|------------------------|---------|-----------|--------------------|------------------|------------------------------------|-------|------------------------------|--------------------------|-----------|--------------|---------------|
| Lab Sample ID: | 1606557-001AMSD | Date Analyzed: | 06/28/201 | | | 1 | | Swige Rost | | | non het | | pat. | 7 27 8 |
| Test Code: | 6010C-W | Date Prepared: | 06/27/201 | 6 1226h | | | | - Amazoni | 5,917 | 1 14411 | 3.00 | 14 5 7 33 | | |
| Calcium | | 97.1 | mg/L | SW6010C | 0.0643 | 10.0 | 100.0 | 0.0715 | 97.0 | 75 - 125 | 96.1 | 1.02 | 20 | |
| Magnesium | | 102 | mg/L | SW6010C | 0.457 | 10.0 | 100.0 | 0 | 102 | 75 - 125 | 100 | 1.44 | 20 | |
| Potassium | | 96.1 | mg/L | SW6010C | 1.06 | 10.0 | 100.0 | 0.31 | 95.8 | 75 - 125 | 94.9 | 1.25 | 20 | |
| Sodium | | 103 | mg/L | SW6010C | 0.142 | 10.0 | 100.0 | 3.44 | 99.6 | 75 - 125 | 102 | 1.14 | 20 | |
| Lab Sample ID: | 1606365-001AMSD | Date Analyzed: | 06/28/201 | 6 1319h | | | | Secretary from the property of the | | constant analysis men use an | guest special attraction | | | |
| Test Code: | 6020-W | Date Prepared: | 06/27/201 | 6 1226h | | | | | | | | | | |
| Antimony | #420 R | 0.198 | mg/L | SW6020A | 0.000854 | 0.00200 | 0.2000 | 0.00396 | 96.9 | 75 - 125 | 0.202 | 2.12 | 20 | |
| Arsenic | | 0.198 | mg/L | SW6020A | 0.000706 | 0.00200 | 0.2000 | 0.00375 | 97.1 | 75 - 125 | 0.205 | 3.28 | 20 | |
| Barium | | 0.386 | mg/L | SW6020A | 0.000788 | 0.00200 | 0.2000 | 0.204 | 91.1 | 75 - 125 | 0.394 | 2.05 | 20 | |
| Beryllium | | 0.193 | mg/L | SW6020A | 0.000960 | 0.00200 | 0.2000 | 0 | 96.5 | 75 - 125 | 0.197 | 2.13 | 20 | |
| Cadmium | | 0.189 | mg/L | SW6020A | 0.0000364 | 0.000500 | 0.2000 | 0.000692 | 94.2 | 75 - 125 | 0.193 | 2.32 | 20 | |
| Chromium | | 0.363 | mg/L | SW6020A | 0.000650 | 0.00200 | 0.2000 | 0.176 | 93.9 | 75 - 125 | 0.37 | 1.73 | 20 | |
| Lead | | 0.206 | mg/L | SW6020A | 0.000818 | 0.00200 | 0.2000 | 0.0227 | 91.6 | 75 - 125 | 0.211 | 2.41 | 20 | |
| Selenium | | 0.197 | mg/L | SW6020A | 0.000612 | 0.00200 | 0.2000 | 0.00376 | 96.7 | 75 - 125 | 0.198 | 0.207 | 20 | |
| Silver | | 0.182 | mg/L | SW6020A | 0.0000738 | 0.00200 | 0.2000 | 0.000229 | 91.1 | 75 - 125 | 0.187 | 2.63 | 20 | |
| Thallium | | 0.176 | mg/L | SW6020A | 0.00110 | 0.00200 | 0.2000 | 0 | 88.2 | 75 - 125 | 0.18 | 1.87 | 20 | a sees - Line |
| Lab Sample ID: Test Code: | 1606545-002DMSD 6020-W | Date Analyzed: Date Prepared: | 06/28/201 06/27/201 | | | | | | | | | | | |
| Antimony | | 0.200 | mg/L | SW6020A | 0.000854 | 0.00200 | 0.2000 | 0.00293 | 98.6 | 75 - 125 | 0.198 | 1.03 | 20 | |
| Arsenic | | 0.205 | mg/L | SW6020A | 0.000706 | 0.00200 | 0.2000 | 0.00357 | 101 | 75 - 125 | 0.207 | 0.903 | 20 | |
| Barium | | 0.348 | mg/L | SW6020A | 0.000788 | 0.00200 | 0.2000 | 0.158 | 95.1 | 75 - 125 | 0.345 | 0.986 | 20 | |
| Beryllium | | 0.195 | mg/L | SW6020A | 0.000960 | 0.00200 | 0.2000 | 0 | 97.3 | 75 - 125 | 0.194 | 0.380 | 20 | |
| Cadmium | | 0.193 | mg/L | SW6020A | 0.0000364 | 0.000500 | 0.2000 | 0.000516 | 96.0 | 75 - 125 | 0.191 | 0.885 | 20 | |
| Chromium | | 0.333 | mg/L | SW6020A | 0.000650 | 0.00200 | 0.2000 | 0.139 | 97.2 | 75 - 125 | 0.335 | 0.440 | 20 | |
| Lead | | 0.199 | mg/L | SW6020A | 0.000818 | 0.00200 | 0.2000 | 0.0124 | 93.3 | 75 - 125 | 0.197 | 1.05 | 20 | |
| Selenium | | 0.191 | mg/L | SW6020A | 0.000612 | 0.00200 | 0.2000 | 0.00309 | 93.9 | 75 - 125 | 0.19 | 0.248 | 20 | |

Report Date: 7/9/2016 Page 9 of 17

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.



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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Contact: Lendl Ah-Fook

Dept: ME **QC Type:** MSD

| Analyte | | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|------------------------------|--------------------------------------|----------------------------------|--------------------------|---------|------------|--------------------|------------------|----------------------|------|----------|-----------------|-------|--------------|------|
| Lab Sample ID: Test Code: | 1606566-001JMSD HG-W-7470A | Date Analyzed: Date Prepared: | 07/06/2016 07/05/2016 | | | | | | | | | | | |
| Mercury | | 0.00332 | mg/L | SW7470A | 0.00000559 | 0.000150 | 0.003330 | 0 | 99.7 | 80 - 120 | 0.00343 | 3.06 | 20 | |
| Lab Sample ID: Test Code: | 1606620-001DMSD HG-W-7470A | Date Analyzed: Date Prepared: | 07/06/2016 07/05/2016 | | | | | | | | | | | |
| Mercury | | 0.00354 | mg/L | SW7470A | 0.00000559 | 0.000150 | 0.003330 | 0 | 106 | 80 - 120 | 0.00359 | 1.31 | 20 | |
| Lab Sample ID: Test Code: | 1606645-001FMSD HG-W-7470A | Date Analyzed: Date Prepared: | 07/06/2016 07/05/2016 | | | | | | | | | | | |
| Mercury | | 0.00345 | mg/L | SW7470A | 0.00000559 | 0.000150 | 0.003330 | 0 | 104 | 80 - 120 | 0.00348 | 0.722 | 20 | |

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

Insufficient sample volume/mass was provided to allow for a full volume/mass analysis of the MS/MSD. Reduced sample volume for the MS/MSD was used as a result.

Report Date: 7/9/2016 Page 11 of 17



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Kyle F. Gross
Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Contact: Lendl Ah-Fook

Dept: WC QC Type: DUP

| Analyte | | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|------------------------------|---------------------------------------|----------------|-----------|------------|------|--------------------|------------------|----------------------|------|--------|-----------------|-------|--------------|------|
| Lab Sample ID: Test Code: | 1606554-001ADUP PH-4500H+B | Date Analyzed: | 06/24/201 | 6 1732h | | | | | | | | | | |
| pH @ 25° C | | 1.63 | pH Units | SM4500-H+B | 1.00 | 1.00 | | | | | 1.65 | 1.22 | 5 | |
| Lab Sample ID: Test Code: | 1606551-001CDUP TDS-W-2540C | Date Analyzed: | 06/27/201 | 6 1300h | | | | | | | | | | |
| Total Dissolved S | olids | 1,660 | mg/L | SM2540C | 17.5 | 20.0 | | | | | 1640 | 1.22 | 5 | |

Report Date: 7/9/2016 Page 12 of 17



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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Contact: Lendl Ah-Fook

Dept: WC QC Type: LCS

| | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---------------------------|--|---|---|--|--|--|---|---|--|---|-----------|---|--------|
| LCS-R91727 300.0-W | Date Analyzed: | 07/06/20 | 16 1127h | | | | | | | | | | |
| | 5.06 | mg/L | E300.0 | 0.00516 | 0.100 | 5.000 | 0 | 101 | 90 - 110 | | | | |
| | 5.17 | mg/L | E300.0 | 0.0201 | 0.750 | 5.000 | 0 | 103 | 90 - 110 | | | | |
| LCS-R91415 ALK-W-2320B | Date Analyzed: | 06/27/20 | 16 530h | | | | | | | | | | |
| CO3) | 50,100 | mg/L | SM2320B | 1.38 | 10.0 | 50,000 | 0 | 100 | 90 - 110 | | | | |
| LCS-R91409 NO2-W-353.2 | Date Analyzed: | 06/24/20 | 16 1818h | | | | | | | | | | |
| | 0.994 | mg/L | E353.2 | 0.00152 | 0.0100 | 1.000 | 0 | 99.4 | 90 - 110 | | | | |
| LCS-R91408 NO3-W-353.2 | Date Analyzed: | 06/24/20 | 16 1819h | | | | | | | | | | |
| | 0.964 | mg/L | E353.2 | 0.00725 | 0.0100 | 1.000 | 0 | 96.4 | 90 - 110 | | | | |
| LCS-R91407 PH-4500H+B | Date Analyzed: | 06/24/20 | 16 1732h | | | | | | | | | Ng. | |
| | 9.00 | pH Units | SM4500-H+B | 1.00 | 1.00 | 9.000 | 0 | 100 | 98 - 102 | | | | |
| LCS-R91485 TDS-W-2540C | Date Analyzed: | 06/27/20 | 16 1300h | | | | | | | | | | |
| olids | 190 | mg/L | SM2540C | 8.77 | 10.0 | 205.0 | 0 | 92.7 | 80 - 120 | | | | |
| | 300.0-W LCS-R91415 ALK-W-2320B CO3) LCS-R91409 NO2-W-353.2 LCS-R91408 NO3-W-353.2 LCS-R91407 PH-4500H+B LCS-R91485 | LCS-R91727 300.0-W 5.06 5.17 LCS-R91415 | LCS-R91727 Date Analyzed: 07/06/20 300.0-W 5.06 mg/L mg/L mg/L 5.17 mg/L mg/L 06/27/20 LCS-R91415 ALK-W-2320B Date Analyzed: 06/27/20 CO3) 50,100 mg/L LCS-R91409 NO2-W-353.2 Date Analyzed: 06/24/20 LCS-R91408 NO3-W-353.2 Date Analyzed: 06/24/20 LCS-R91407 PH-4500H+B Date Analyzed: 06/24/20 LCS-R91485 TDS-W-2540C Date Analyzed: 06/27/20 | LCS-R91727 300.0-W Date Analyzed: 07/06/2016 1127h 5.06 mg/L mg/L E300.0 5.17 mg/L E300.0 E300.0 LCS-R91415 ALK-W-2320B Date Analyzed: 06/27/2016 530h CO3) 50,100 mg/L SM2320B LCS-R91409 NO2-W-353.2 Date Analyzed: 06/24/2016 1818h LCS-R91408 NO3-W-353.2 Date Analyzed: 06/24/2016 1819h LCS-R91407 PH-4500H+B Date Analyzed: 06/24/2016 1732h LCS-R91407 PH-4500H+B Date Analyzed: 06/24/2016 1732h LCS-R91485 TDS-W-2540C Date Analyzed: 06/27/2016 1300h | LCS-R91727 Date Analyzed: 07/06/2016 1127h 300.0-W 5.06 mg/L E300.0 0.00516 5.17 mg/L E300.0 0.0201 LCS-R91415 Date Analyzed: 06/27/2016 530h CO3) 50,100 mg/L SM2320B 1.38 LCS-R91409 Date Analyzed: 06/24/2016 1818h NO2-W-353.2 0.994 mg/L E353.2 0.00152 LCS-R91408 Date Analyzed: 06/24/2016 1819h NO3-W-353.2 0.964 mg/L E353.2 0.00725 LCS-R91407 Date Analyzed: 06/24/2016 1732h PH-4500H+B 9.00 pH Units SM4500-H+B 1.00 LCS-R91485 Date Analyzed: 06/27/2016 1300h | Date Analyzed: O7/06/2016 1127h Signature O7/06/2016 1127h Signature O7/06/2016 1127h Signature O7/06/2016 1127h Signature O7/06/2016 Signature O7/06/2016 | LCS-R91727 Date Analyzed: 07/06/2016 1127h Spiked | CCS-R91409 Date Analyzed: O6/24/2016 1818h O6/24/2016 1819h O6/24/2016 1819h | CS-R91408 Date Analyzed: Of/24/2016 1818h Date Analyzed: Of/24/2016 1819h Of/24/2016 1818h Of/24/2016 1819h Of/24/2016 1818h Of/24/2016 1819h Of/ | CS-R91727 Date Analyzed: O7/06/2016 1127h | CS-R91472 | CS-R91727 Date Analyzed Date Analyzed Solution Solution | Nesual |



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Kyle F. Gross Laboratory Director

Jose Rocha **OA** Officer

QC SUMMARY REPORT

Contact: Lendl Ah-Fook

Dept: WC QC Type: LCSD

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|----------------|----------|---------|------|--------------------|------------------|----------------------|------|----------|-----------------|-------|--------------|------|
| Lab Sample ID: LCSD-R91415 Test Code: ALK-W-2320B | Date Analyzed: | 06/27/20 | 16 530h | | | | | | | | | | |
| Alkalinity (as CaCO3) | 50,100 | mg/L | SM2320B | 1.38 | 10.0 | 50,000 | 0 | 100 | 90 - 110 | 50100 | 0 | 20 | |



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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Contact: Lendl Ah-Fook

Dept: WC
QC Type: MBLK

| Analyte | | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|-----------------------------|--------------------------------------|------------------------------|--|------------------------------|------------------------------|------------------|----------------------|------|--------|-----------------|-------|--------------|------|
| Lab Sample ID: Test Code: | MB-R91727 300.0-W | Date Analyzed: | 07/06/20 | 16 1111h | | | | | | | | | | |
| Chloride Sulfate | | < 0.100 < 0.750 | mg/L mg/L | E300.0 E300.0 | 0.00516 0.0201 | 0.100 0.750 | | | | | | | | |
| Lab Sample ID: Test Code: | MB-R91415 ALK-W-2320B | Date Analyzed: | 06/27/20 | 16 530h | | | | | | | | | | |
| Alkalinity (as Cad Bicarbonate (as Cad Carbonate (as Cad Hydroxide (as Cad | CaCO3) CO3) | < 10.0 < 10.0 < 10.0 < 10.0 | mg/L mg/L mg/L mg/L | SM2320B SM2320B SM2320B SM2320B | 1.38 1.38 1.38 1.38 | 10.0 10.0 10.0 10.0 | | | | | | | | |
| Lab Sample ID: Test Code: | MB-R91409 NO2-W-353.2 | Date Analyzed: | 06/24/20 | 16 1816h | | | | | | | | | | |
| Nitrite (as N) | | < 0.0100 | mg/L | E353.2 | 0.00152 | 0.0100 | | | | | | | | |
| Lab Sample ID: Test Code: | MB-R91408 NO3-W-353.2 | Date Analyzed: | 06/24/20 | 16 1816h | | | | | | | | | | |
| Nitrate (as N) | | < 0.0100 | mg/L | E353.2 | 0.00725 | 0.0100 | | | | | | | | |
| Lab Sample ID: Test Code: | MB-R91485 TDS-W-2540C | Date Analyzed: | 06/27/20 | 16 1300h | | | | | | | | | | |
| Total Dissolved S | Solids | < 10.0 | mg/L | SM2540C | 8.77 | 10.0 | | | | | | | | |



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Kyle F. Gross Laboratory Director

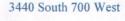
Jose Rocha QA Officer

QC SUMMARY REPORT

Contact: Lendl Ah-Fook

WC Dept: QC Type: MS

| Analyte | | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|------------------------------|-----------------------------------|----------------|----------|----------|--------|--------------------|------------------|----------------------|------|----------|-----------------|-------|--------------|------|
| Lab Sample ID: Test Code: | 1606566-002DMS 300.0-W | Date Analyzed: | 07/06/20 | 16 1218h | | | | | | | | | | |
| Chloride | | 223 | mg/L | E300.0 | 0.103 | 2.00 | 100.0 | 116 | 107 | 90 - 110 | | | | |
| Sulfate | | 148 | mg/L | E300.0 | 0.402 | 15.0 | 100.0 | 43.4 | 104 | 90 - 110 | | | | |
| Lab Sample ID: Test Code: | 1606645-001DMS 300.0-W | Date Analyzed: | 07/06/20 | 16 1544h | | | | | | | | | | |
| Chloride | | 126 | mg/L | E300.0 | 0.103 | 2.00 | 100.0 | 20.4 | 105 | 90 - 110 | | | | |
| Sulfate | | 122 | mg/L | E300.0 | 0.402 | 15.0 | 100.0 | 17.8 | 104 | 90 - 110 | | | | |
| Lab Sample ID: Test Code: | 1606504-009DMS NO2 NO2-W-353.2 | Date Analyzed: | 06/24/20 | 16 1821h | | | | | 127 | | | | | |
| Nitrite (as N) | | 10.1 | mg/L | E353.2 | 0.0152 | 0.100 | 10.00 | 0.0365 | 101 | 90 - 110 | | | | |
| Lab Sample ID: Test Code: | 1606554-001AMS NO2 NO2-W-353.2 | Date Analyzed: | 06/24/20 | 16 1840h | | | | | | | | | | |
| Nitrite (as N) | Salar Property | 9.95 | mg/L | E353.2 | 0.0152 | 0.100 | 10.00 | 0.14 | 98.1 | 90 - 110 | | | | |
| Lab Sample ID: Test Code: | 1606504-009DMS NO3 NO3-W-353.2 | Date Analyzed: | 06/24/20 | 16 1837h | | | | | | | | | | |
| Nitrate (as N) | | 10.5 | mg/L | E353.2 | 0.0725 | 0.100 | 10.00 | 0.887 | 95.6 | 90 - 110 | | | | |
| Lab Sample ID: Test Code: | 1606554-001AMS NO3 NO3-W-353.2 | Date Analyzed: | 06/24/20 | 16 1843h | | | | | | | | | | |
| Nitrate (as N) | | 12.0 | mg/L | E353.2 | 0.0725 | 0.100 | 10.00 | 2.88 | 91.0 | 90 - 110 | | | | |



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Kyle F. Gross Laboratory Director

Jose Rocha **OA** Officer

QC SUMMARY REPORT

Contact:

Lendl Ah-Fook

WC Dept: QC Type: MSD

Client: **CS** Mining Lab Set ID: 1606554 Project: **ITDF**

American West

| Analyte | e CUTTO S | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|------------------------------|---|----------------|----------|----------|--------|--------------------|---|----------------------|---------------------|----------|-----------------|----------|--------------|-------|
| Lab Sample ID: Test Code: | 1606566-002DMSD 300.0-W | Date Analyzed: | 07/06/20 | 16 1235h | | | a-20 | | ENSERGE Language | | | | | |
| Chloride | | 221 | mg/L | E300.0 | 0.103 | 2.00 | 100.0 | 116 | 105 | 90 - 110 | 223 | 0.741 | 20 | |
| Sulfate | | 146 | mg/L | E300.0 | 0.402 | 15.0 | 100.0 | 43.4 | 103 | 90 - 110 | 148 | 0.939 | 20 | |
| Lab Sample ID: Test Code: | 1606645-001DMSD 300.0-W | Date Analyzed: | 07/06/20 | 16 1601h | | | Last Constitution | CAMO Y NA | | | | | | |
| Chloride | | 125 | mg/L | E300.0 | 0.103 | 2.00 | 100.0 | 20.4 | 104 | 90 - 110 | 126 | 0.686 | 20 | |
| Sulfate | | 122 | mg/L | E300.0 | 0.402 | 15.0 | 100.0 | 17.8 | 104 | 90 - 110 | 122 | 0.423 | 20 | |
| Lab Sample ID: Test Code: | 1606504-009DMSD NO2 NO2-W-353.2 | Date Analyzed: | 06/24/20 | 16 1836h | | 5.0 | V 583 December 2-2-18-2-18-2-18-2-18-2-18-2-18-2-18-2- | ALK ALKBALL | 27.87 | | | | | |
| Nitrite (as N) | | 9.99 | mg/L | E353.2 | 0.0152 | 0.100 | 10.00 | 0.0365 | 99.5 | 90 - 110 | 10.1 | 1.33 | 10 | |
| Lab Sample ID: Test Code: | 1606554-001AMSD NO2 NO2-W-353.2 | Date Analyzed: | 06/24/20 | 16 1842h | | | | | | | - G- | KETER TO | | |
| Nitrite (as N) | | 9.97 | mg/L | E353.2 | 0.0152 | 0.100 | 10.00 | 0.14 | 98.3 | 90 - 110 | 9.95 | 0.201 | 10 | |
| Lab Sample ID: Test Code: | 1606504-009DMSD NO3 NO3-W-353.2 | Date Analyzed: | 06/24/20 | 16 1838h | | | | | | | | | | 25.05 |
| Nitrate (as N) | | 10.5 | mg/L | E353.2 | 0.0725 | 0.100 | 10.00 | 0.887 | 95.7 | 90 - 110 | 10.5 | 0.0999 | 10 | |
| Lab Sample ID: Test Code: | 1606554-001AMSD NO3 NO3-W-353.2 | Date Analyzed: | 06/24/20 | 16 1844h | | | | | | | | | | |
| Nitrate (as N) | | 12.0 | mg/L | E353.2 | 0.0725 | 0.100 | 10.00 | 2.88 | 91.0 | 90 - 110 | 12 | 0.00919 | 10 | |

Report Date: 7/9/2016 Page 17 of 17

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.





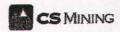






| Analytical L. 3440 s. 700 W. Salt L. Phone # (801) 283-8887 E. www.awal- | American West Analytical Laboratories 3440 s. 700 W. Salt Lake City, UT 84119 Phone # (801) 283-888 Toll Free # (888) 283-8888 Fax # (801) 283-8887 Email swal@aval-labs.com | | | | | CHAIN OF CUSTODY All entelysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists reporting limits (POL) variese specifically requested of horwise on this Chain of Custody aradior attached documentation. QC Level: Turn Around Time: 1 2 3 4 5 | | | | | | | | | |
|--|--|---|------------|--|---|---|--|----|---|------|---|---|--|--|--|
| Client CS MINING Address: 1209 SOUTH 3 MILFORD, UT LENDL AFFEL Phone #: Email: Cahflesk OCSN Project #: PO#: Sampler Name: LENDL AffFL Sampler Name: CS MINING Col TOT Cat Cat Cat Cat Cat Cat Cat Ca | 200 WESI 94751 01- 11- 11- | | Containers | Matrix | atlached | | | | | | Report down to the MDL Include EDD: Lab Filler for: Field Filtered For: For Compliance With: NELAP RCRA CWA SDWA EIAP / AZLA NLLAP Non-Compliance Other: Known Hazards | Laboratory Use Only Samples Wore: 1 Shipped Chand deligneer 2 Ambients Chilled 3 Temperature 4 Received Brotent asking (improperly Seesaway) N Checked at bench 6 Received William 6 Received William | | | |
| Sample ID: | Date Sampled | Time Sampled /2/6 | jo# | Sample Matrix | <i>y</i> | | | | | | Sample Comments | COC Tope Was: 1 Present on Outer Package Y N N NA 2 Urbroken on Outer Package Y N NA 3 Present on Sample Y N NA 4 Unbroken on Sample Y N NA Discrepancies Between Sample Lubbis and COC Recognity | | | |
| Relinquished by Sanatus Print Name: LENDL AHF-00K Relinquished by Sanatus Print Name: Print Name | Date: 6/2 4 Tires: 1/9 Date: 1/9 Date: 1/9 Date: 1/9 Date: 1/9 Tires: 0/1 Date: 1/9 Tires: 1/9 | Print Name: Received by: Signature Print Name: Received by: Signature Print Name: Received by: Signature Print Name: | | 1- | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | - B | | un | Date Z Time: Date Z Time: Time: Date: Time: | 1701 | Special Instructions: ACID BAY LOW PH | S E | | | |

CAUTION VY LOW pt HS Ey Solution



Testing Parameters for Water Analysis

Alkalinity (HCO₃, CO₃, CO₂, OH)



Calcium

Chloride

Magnesium

Nitrite

Nitrate

Potassium

Sodium

Sulfate

Trace Metals

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Copper

Lead

Mercury

Selenium

Silver

Thallium

Zinc

Misc.

pH

Total Dissolved Solids



Please contact Tyler Erickson or Todd Memmott at 435.387.5053. ext. 5205 or via email <u>terickson@csmining.com</u>/tmemmott@csmining.com if you have any questions, thank you.